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ABSTRACT

Resources related to programed instruction are listed in three major areas: (1) survey publications, including films and filmstrips; (2) collections of articles and journals of continuous interest; and (3) special topic publications relating to the theory, research, and production techniques which provide the foundation for programed instruction. Entries within each area are listed alphabetically by author, and each includes title, publisher, and date of publication. For some categories, brief explanatory comments are provided. (EMH)

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special-topic
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PROGRAMMED INSTRUCTION:
A SELECTIVE BIBLIOGRAPHIC GUIDE

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PROGRAMMED INSTRUCTION: A SELECTIVE BIBLIOGRAPHIC GUIDE

(Rev. Ed.)

Introductory note: An earlier bibliography was issued about two years ago. The present version is revised, updated and augmented. Like the first edition, however, this bibliographic guide is selective, that is, it does not aim to be at all exhaustive. Instead, we have tried to cover a number of basic topics and, within each of these, to list a sample of pertinent references. For some of the categories we have also attempted to give some further guidance by means of brief comments.

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I. SURVEY PUBLICATIONS

A. Integrated surveys in book form

Becker, J.L. A programed guide to writing auto-instructional programs. Camden, N.J.: RCA, 1964.

Bjerstedt, Å. Självinstruerande studiematerial. Lund, Sweden: Uniskol, 1963.

Bjerstedt, Å. Undervisningsmaskiner, språklaboratorier och gruppdynamisk kartläggning. (2 nd ed.) Lund: Gleerups, 1965.

Bjerstedt, Å. Undervisningsprogrammering och utvärdering. Stockholm: Sv. Bokförlaget, 1965.

Brethower, D.M. Programed instruction: a manual of programing techniques. Chicago: Educational Methods, 1963.

Correll, W. Programmiertes Lernen und schöpferisches Denken. München: Reinhardt, 1965.

Décoté, G. Vers l'enseignement programmé. Paris: Gauthier-Villars, 1963.

Deterline, W.A. An introduction to programed instruction. Englewood Cliffs: Prentice-Hall, 1962.

Filby, Y. Teaching machines. A review of theory and research. Copenhagen: Munksgaard, 1961.

Foltz, Ch.I. The world of teaching machines. Programed learning and self-instructional devices. Washington: ETL, 1961.

Fry, E.B. Teaching machines and programmed instruction. An introduction. New York: McGraw-Hill, 1963.

Goodman, R. Programmed learning and teaching machines. An introduction. (2nd ed.) London: English Universities Pr., 1963.

Green, E.J. The learning process and programmed instruction. New York: Holt, 1962.

Hughes, J.L.: Programed instruction for schools and industry. Chicago: Science Research Associates, 1962.

Jacobs, P.I., Maier, M.H. & Stolurow, L.M. A guide to evaluating self-instructional programs. New York: Holt, 1966.

Kay, H. et al. Teaching machines and their use in industry. London: DSIR, 1963.

Leith, G.O.M. et al. A handbook of programmed learning. Birmingham, England: University of Birmingham, 1964. (2nd ed., 1966)

Ludwig, E.H. Die Technik zur Herstellung von Lehrprogrammen für die programmierte Unterweisung. Ratingen: Henn, 1965.

Lysaught, J.P. & Williams, C.M. A guide to programmed instruction. New York: Wiley, 1963.

Markle, S.M. A programed primer on programing. Vol. II. Practical problems. New York: Center for Programed Instruction, 1961.

Markle, S.M., Eigen, L.D. & Komoski, P.K. A programed primer on programing. Vol. I. Principles. New York: Center for Programed Instruction, 1961.

Markle, S.M. Good frames and bad: A grammar of frame writing. New York: Wiley, 1964.

Meacham, J.D. Programmed instruction. Training manual. La Mesa, Calif.: Ravin, 1963.

de Montmollin, M. L'enseignement programmé. Paris: Presses Universitaires, 1965.

Netzer, H. Lernprogramm und Lernmaschine. Bad Heilbrunn, Germany: Klinkhardt, 1964.

Richmond, W. K. Teachers and machines. London: Collins, 1965.

Sander, M. Der programmierte Unterricht in der allgemeinbildenden Schule. Bad Neuenahr, Germany: Mars-Lehrmittelverlag, 1964.

Schiefele, H. Programmierte Unterweisung. München: Ehrenwirth, 1964.

Schramm, W. Programed instruction today and tomorrow. New York: The Fund for the Advancement of Education, 1962.

Silvern, L.C. Fundamentals of teaching machine and programmed learning systems. Los Angeles: Education and Training Consultants, 1964.

Stolurow, L.M. Teaching by machine. Washington: U.S. Government Printing Office, 1961.

Taber, J.I., Glaser, R. & Schaefer, H.H. Learning and programmed instruction. Reading, Mass.: Addison - Wesley, 1965.

Thomas, C.A. et al. Programmed learning in perspective. A guide to programme writing. Barking, Essex: Adelphi Press, 1963.

Undervisningsmaskiner och programmerat studiematerial. Kungl. Skolöverstyrelsen (Sweden): Utredningar i skolfrågor 11, 1963.

Zielinski, J. & Schöler, W. Pädagogische Grundlagen der programmierten Unterweisung unter empirischem Aspekt. Ratingen: Henn, 1964.

Zielinski, J. & Schöler, W. Methodik des programmierten Unterrichts. Ratingen: Henn, 1965.

Note: Some of these books are very elementary and popular; whereas others - e.g., the publications by Filby and Stolurow - are more adapted to readers with some familiarity of the terminology and style of scientific psychology. In some cases the presentation is that of a programmed textbook and, hence, functions both as introduction and illustration, e.g., Becker 1963, Brethower 1963, and Markle 1964. Those who are most interested in the program construction process will regard Fry 1963, Lysaught & Williams 1963, and Markle 1964 as some of the important references. The relevant learning theory is given special emphasis by Green 1962. Some of the publications seem to have been put together under great pressure of time. The reader is thus recommended to read the publications by Foltz and by Meacham, for instance, with a critical attitude and check such information as might be of particular interest to him before taking it for granted.

B. Survey articles

Glaser, R. Research and development issues in programed instruction. In: Filep, R. T. (Ed.) Prospectives in programing. New York: Macmillan, 1963. Pp. 278-309.

Heinrichs, H. Lernautomaten. In: H. Heinrichs, Roboter vor der Schultür? Bochum, Germany: Kamp, 1964. Pp. 103-144.

Holland, J. G. Research on programing variables. In: R. Glaser (Ed.). Teaching machines and programed learning, II. Washington, D.C.: NEA, 1965. Pp. 66-117.

Komoski, P. K. Teaching machines and programmed instruction today. In E. H. Goodman (Ed.) Automated education handbook. Detroit: A E Center, 1965. Section II A. Pp. 1-8.

Lumsdaine, A. A. Experimental research on instructional devices and materials. In: R. Glaser (Ed.) Training research and education. Pittsburgh: Univer. Pittsburgh Pr., 1962. Pp. 247-294.

Lumsdaine, A. A. Instruments and media of instruction. In: N. L. Gage (Ed.) Handbook of research on teaching. Chicago: Rand McNally, 1963. Pp. 583-682.

Morrill, C. S. Teaching machines: A review. Psychol. Bull., 1961, 58, 363-375.

Skinner, B. F. Why we need teaching machines. Harvard educ. Rev., 1961, 31, 377-398.

Skinner, B. F. Reflections on a decade of teaching machines. In: R. Glaser (Ed.), Teaching machines and programed learning, II. Washington, D.C.: NEA, 1965. Pp. 5-20.

C. Introductory films and filmstrips

"Example of a teaching machine program". Filmstrip prepared by D. H. Luxton & R. E. Corrigan. Color, 69 frames. Pasadena, Calif.: Basic Skill Films.

"Learning and behavior". Interviews with B. F. Skinner and R. J. Herrnstein at Harvard's Psychological Laboratory (CBS). B & w, 16 mm sound, 27 min. New York: Carousel Films.

"One step at a time". Produced by D. Klaus et al., American Institute for Research. Color, 16 mm sound, 28 min. Pittsburgh, Penna.: AIR.

"Selection and use of programed materials". Filmstrip (64 frames, color) and grammophone record, 16 min. Washington: NEA.

"Teaching machines". Filmstrip prepared by W. H. Allen. Techn. advisor: A. A. Lumsdaine. Color, 62 frames. Pasadena, Calif.: Basic Skill Films.

"Teaching machines and programmed learning". Demonstrations and comments by B. F. Skinner, A. A. Lumsdaine, and R. Glaser (NEA). B & w, 16 mm sound, 29 min. Washington: Norwood Films.

Note: The films and filmstrips mentioned may be borrowed by teacher training departments in Sweden from School of Education, Malmö, at no cost. Requests should be directed to: Mr. J.-E. Svensson, Department of Educational and Psychological Research.

D. Inventory-type surveys

Note: Many bibliographic surveys have appeared, but they usually have the disadvantage of becoming obsolescent almost before leaving the printing press. Only some of the more recent ones are therefore listed here. For information about the most recent publications, the reader should as a rule consult the latest issues of the journals in the field, where surveys and reviews often appear. - As is apparent from the titles, the inventories cover different things. Inventories of machines are given by Finn & Perrin and by Ross, whereas program inventories are presented in "Programs, ´62", "Programs, ´63" etc. Research in progress is presented by Clemens, whereas published research is abstracted by Schramm. General bibliographic surveys are furnished by Deutsche Forschungsgruppe für programmierte Instruktion and by Gee.

Bohnsack, S. Bibliographie „Programmierter Unterricht, Lehrmaschinen und Kybernetik in der Pädagogik mit Randgebieten und Quellen". Güstrow: Pädag. Institut, 1965.

Center for Programed Instruction. Programs, ´62. A guide to programed instructional materials available to educators by September 1962. Washington: U.S. Government Printing Office, 1962.

Center for Programed Instruction. Programs, ´63. A guide to programed instructional materials available to educators by September 1963. Washington: U.S. Government Printing Office, 1963.

Center for Programed Instruction. Programed instruction materials 1964-65. A guide to programed instruction materials available for use in elementary and secondary schools as of April, 1965. New York: Teachers Coll., Columbia Univer., 1965.

Centre de Documentation sur l´Enseignement Programmé. Bibliographie sur l´enseignement programmé et les machines à enseigner (I-II). Paris: Institut Pédagogique National, 1966.

Clemens, T.D. Research grants and contracts. Programed learning and self-instructional media. Washington: Office of Education, 1963.

Englert, L. et al. (Eds.) Lexikon der kybernetischen Pädagogik und der programmierten Instruktion. Quickborn: Schnelle, 1966.

Finn, J.D. & Perrin, D.G. Teaching machines and programed learning. A survey of the industry. Washington: U.S. Government Printing Office, 1962.

Frank, H. Anregungen zur Terminologie auf dem Gebiet der Lehrobjektivierung. In: H. Frank (Ed.) Lehrmaschinen in kybernetischer und pädagogischer Sicht, 2. Stuttgart: Klett, 1964. Pp. 143-151.

Gee, R.D. Teaching machines and programmed learning. A guide to the literature. (2nd ed.) Hatfield, England: HERTIS, 1965.

Gesamtverzeichnis des deutschsprachigen Schrifttums über programmierte Instruktion. Darmstadt: Deutsche Forschungsgruppe für programmierte Instruktion, 1964.

Published programmed instruction materials. In: E.H. Goodman (Ed.) Automated education handbook. Detroit: AE Center, 1965. Section II C. Pp. 1-260.

Ross, W.L. et al. Teaching machines: Industry survey and buyers' guide. New York: Center for Programed Instruction, 1962.

Schramm, W. The research on programed instruction. An annotated bibliography. Washington, D.C.: U.S. Government Printing Office, 1964.

Wörterbuch programmierter Unterricht. München: Manz, 1964.

Zinn, K.L. Survey of materials prepared for instruction or instruction research via on line computer systems. AE Letter, 1966, 1 (7), 8-16.

II. COLLECTIONS

A. Collections of articles

Automatisiertes Lehren - Programmierter Unterricht. "Vergleichende Pädagogik" (Special issue.) 1965:3.

Correll, W. (Ed.) Programmiertes Lernen und Lehrmaschinen. Braunschweig, Germany: Westermann, 1965.

Coulson, J. E. (Ed.) Programmed learning and computer-based instruction. New York: Wiley, 1962.

DeCecco, J. P. (Ed.) Educational technology. Readings in programmed instruction. New York: Holt, 1964.

Dolmatch, Th. B. et al. (Eds.) Revolution in training. Programed instruction in industry. New York: American Management Association, 1962.

Filep, R. T. (Ed.) Prospectives in programing. New York: Macmillan, 1963.

Frank, H. (Ed.) Lehrmaschinen in kybernetischer und pädagogischer Sicht, 1-4. Stuttgart: Klett, 1963-66.

Galanter, E. (Ed.) Automatic teaching: The state of the art. New York: Wiley, 1959.

Glaser, R. (Ed.) Teaching machines and programed learning, II: Data and directions. Washington, D. C: NEA, 1965.

Goldsmith, M. (Ed.) Mechanisation in the classroom. An introduction to teaching machines and programmed learning. London: Souvenir Pr., 1963.

Goodman, E. H. (Ed.) Automated education handbook. Detroit, Mich.: Automated Education Center, 1965. (Särskilt: Section II, "Programmed Instruction".)

Hughes, J. L. (Ed.) Programed learning: A critical evaluation. Chicago: Educational Methods, 1963.

Lambert, Ph. (Ed.) The teacher and the machine. Madison, Wisc.: Dembar, 1962.

L´enseignement programmé. "Le Courrier de la Recherche pédagogique" (Special issue). January 1965.

Lumsdaine, A. A. (Ed.) Student response in programmed instruction. Washington: National Academy of Sciences, 1961.

Lumsdaine, A. A. & Glaser, R. (Eds.) Teaching machines and programmed learning: A source book. Washington: NEA, 1960.

Lysaught, J. P. (Ed.) Programmed learning. Evolving principles and industrial applications. Ann Arbor, Mich.: The Foundation for Research on Human Behavior, 1961.

Margulies, S. & Eigen, L.D. (Eds.) Applied programed instruction. New York: Wiley, 1962.

Ofiesh, G.D. & Meierhenry, W.C. (Eds.) Trends in programmed instruction. Washington: NEA, 1964.

Praxis und Perspektiven des programmierten Unterrichts. Quickborn: Schnelle, 1965.

"Programmierter Unterricht und Lehrmaschinen". Berlin: Pädag. Zentrum, 1964.

Schestakow. Programmiertes Lernen und Lehrmaschinen. Berlin: Verlag Technik, 1965.

Smith, W.I. & Moore, J.W. (Eds.) Programmed learning: Theory and research. Princeton, N.J.: Nostrand, 1962.

Teal, G.E. (Ed.) Programmed instruction in industry and education. Stamford, Conn.: Public Service Research, 1963.

Váňa, J. & Tollingerová, D. (Eds.) Programované učení. (Reports from the 2nd Czechoslovak Conference on programmed learning, May 1965.) Praha, 1966.

Note: Among the collections of articles mentioned above, the one by Lumsdaine & Glaser 1960 is probably still one of the best sources for anyone who wants to have a survey of the brief history of programmed instruction and to read some of the most important early articles by the originators in the field: Pressey, Skinner, Crowder, and others. This book is also a good bibliographic source for "old" publications (up to 1960). Readers who want a less expensive general collection are recommended to buy Smith & Moore 1962. Readers who want to be informed also about non-American developments might, for example, read Frank 1963 - 1966, Goldsmith 1963, and "Programmierter Unterricht ...." 1964. Computer problems in programming are treated in the valuable collection by Coulson 1962. Those who want to engross themselves in the atmosphere of a programming seminar (even down to the most trivial "The coffee's ready") will find a minute-by-minute recording in Teal 1963.

B. Journals and bulletins with continuous interest in programmed instruction

AID: Auto-Instructional Devices. Has been published by Institute of International Research and Development, Lubbock, Texas. (Cf NSPI Journal below)

A.P.L. Newsletter. Association for Programmed Learning, London.

Audiovisual Instruction. Ten issues per year. Department of Audiovisual Instruction, NEA, Washington.

Automated Education Letter. Monthly (since October, 1965). Automated Education Center, Detroit. Main areas: computer-aided instruction and programmed learning. (Supplements E. H. Goodman (Ed.), Automated education handbook. Detroit: AE Center, 1965.)

A V Communication Review. Quarterly. Department of Audiovisual Instruction, NEA, Washington.

Contemporary Psychology. Monthly. American Psychological Association, Washington.

Deutsche Lehrprogramme für Schule und Praxis. Quarterly. Manz Verlag, München, Germany.

Didakometry. Mimeographed bulletin. Department of Educational and Psychological Research, School of Education, Malmö, Sweden.

Educational Technology. (Formerly: Teaching Aid News.) Twice monthly. Educational News Service, Saddle Brook, New Jersey.

Geprogrammeerde Instructie. Alphen aan den Rijn: Samsom.

Journal of Programed Instruction. Quarterly. Has been published by Center for Programed Instruction, New York.

La Cybernétique et la Pédagogie Cybernétique. L´Association de Pédagogie Cybernétique, Paris.

L´Enseignement Programmé. Quarterly. Centre de Documentation sur l´enseignement programmé, Institut Pédagogique National, Paris.

NSPI Journal. Ten issues per year. The National Society for Programmed Instruction, USA. A combination of AID (cf above) and the earlier NSPI Newsletter.

Programed Instruction. Nine issues per year. Has been published by Center for Programed Instruction, Teachers College, Columbia University, New York.

Programmed Learning. Three issues per year. From 1967: Quarterly. Association for Programmed Learning, London.

Programmiertes Lernen und programmierter Unterricht. Quarterly. Cornelsen, Berlin.

Note: As is obvious from the titles, "AV Communication Review" and "Audiovisual Instruction" are designed to cover the total audiovisual field, but these journals have published much material of interest in the area of didactic programming. "Contemporary Psychology" is a journal of reviews for the general field of psychology, but it includes a special review section dealing with instructional materials (edited by A. A. Lumsdaine). In this section many works on programming have been critically examined. Several differences in style of presentation are seen in the group of journals mentioned above. For instance, "AV Communication Review", "Journal of Programed Instruction", and "Programmed Learning" have favored strict scientific reports, whereas "NSPI Journal", for example, has the style of an information bulletin, in which news and brief notes of various kinds take up considerable space. The field is a very active one, but it also shows signs of instability; several of the "early" journals have already been discontinued (e.g., AID, Automated Teaching Bulletin, Journal of Programed Instruction, and Programed Instruction).

III. SPECIAL-TOPIC PUBLICATIONS

A. The pre-writing process: introductory analyses and decisions

A 1. Analyses of terminal objectives, target populations, and subject-matter structure

Baier, W. Methodologische Untersuchungen der Wissenschaften zur Erarbeitung logischer Strukturen. In: J. Vana & D. Tollingerová (Eds.) Programované učení. Praha, 1966. Pp. 112-130.

Bloom, B.J. (Ed.) Taxonomy of educational objectives. ... Handbook I: Cognitive domain. New York: Longmans, 1956.

Evans, J.L., Homme, L.E. & Glaser, R. The Ruleg system for the construction of programmed verbal learning sequences. J. educ. Res., 1962, 55, 513-518.

Gagné, R.M. The analysis of instructional objectives for the design of instruction. In: R. Glaser (Ed.). Teaching machines and programed learning, II. Washington, D.C.: NEA, 1965. Pp. 21-65.

Glaser, R. Some research problems in automated instruction: instructional programming and subject-matter structure. In: J.E. Coulson (Ed.) Programmed learning and computer-based instruction. New York: Wiley, 1962. Pp. 67-85.

Krathwohl, D.R., Bloom, B.S. & Masia, B.B. Taxonomy of educational objectives. ... Handbook II: Affective domain. New York: McKay, 1964.

Landa, L.N. An experiment in the application of mathematical logic and information theory to some aspects of teaching. (In Russian.) Voprosy Psichologii, 1962, No. 2, 19-40.

Landa, L.N. Algorithms and teaching. (In Russian.) Moscow: Prosvesheheniye Publ. House, 1966.

Mager, R.F. Preparing objectives for programmed instruction. San Francisco: Fearon, 1961.

Miller, R.B. Task description and analysis. In: R.M. Gagné (Ed.) Psychological principles in system development. New York: Holt, 1962. Pp. 187-228.

Roe, A. & Moon, H. Analysis of course content for individual learning. Automated Teaching Bulletin, 1960, 1 (3), 3-11.

Vogt, H. Algorithmisierung und Programmierung. Deutsche Lehrprogramme, 1965, 2 (3), 9-22.

Zifreund, W. Ein strukturanalytisches Diagramm als Hilfsmittel bei der Herstellung und kritischen Analyse von Lehrprogrammen. In: H. Frank (Ed.) Lehrmaschinen in kybernetischer und pädagogischer Sicht. 3. Stuttgart: Klett, 1965. Pp. 114-135.

A 2. Decisions on presentation media

Brown, J.W. Student response systems. Audiovisual Instruction, 1963, 8, 214-218.

Bushnell, D.D. The role of the computer in future instructional systems. Washington: DA VI, 1963.

Frank, H. & Kistner, R. Eine Tonbildanlage mit Rückkoppelungseinheiten. In: H. Frank (Ed.) Lehrmaschinen in kybernetischer und pädagogischer Sicht, 3. Stuttgart: Klett, 1965. Pp. 49-57.

Goldstein, L.S. & Gotkin, L.G. Teaching machines vs. programed textbooks as presentation modes. Journal of programed Instruction, 1962, 1, 29-36.

Hayes, A.S. Language laboratory facilities. Washington: U.S. Government Printing Office, 1963.

Hocking, E. Language laboratory and language learning. Washington: NEA, 1964.

Lewis, B.N. Adaptive teaching machines. (Printed for private circulation.) Richmond, Surrey, England: Author, 1963. Pp. 10.

Pask, G. Teaching machines. In: 2nd International Congress on Cybernetics. Sept. 1958. Namur, Belg.: Assoc. Intern. de Cybernétique. Pp. 962-978.

Pask, G. The teaching machine as a control mechanism. Transactions of the Society of Instrument Technology. June 1960. Pp. 72-89.

Rostunow, T.I. & Sokolinski, I.J. Klassifizierung, Anforderungen und Bauprinzipien einfacher kybernetischer Lehrmaschinen. In: Programmiertes Lernen und Lehrmaschinen. Berlin: Verlag Technik, 1965. Pp. 32-47.

Rüfenacht, R. Neue Präsentationsmethoden für Lehrprogramme. In: Praxis und Perspektiven des programmierten Unterrichts. Quickborn: Schnelle, 1965. Pp. 83-90.

Ryans, D.G., Bushnell, D.D. & Cogswell, J.F. A computer-based laboratory for automation in school systems. Santa Monica, Calif.: System Development Corp., 1962.

Stolurow, L.M. & Davis, D. Teaching machines and computer-based systems. In: R. Glaser (Ed.) Teaching machines and programed learning, II. Washington, D.C.: NEA, 1965. Pp. 162-212.

Uttal, W.R. My teacher has three arms!!! Teaching machines & programed instruction (Eindhoven, Holland), 1963, No. 5, 35-78.

Zielenski, J. Aufbau und Wesen der Aachener Probiton-Methode. In: Praxis und Perspektiven des programmierten Unterrichts. Quickborn: Schnelle, 1965. Pp. 119-126.

Zinn, K.L. Computer assistance for instruction. AE Letter, 1965, 1 (1), 4-14.

Zinn, K.L. CAI - System and projects. AE Letter, 1966, 1 (8), 3-13.

B. Problems related to the writing process

B 1. The problem of "flow structure"

Chapman, B. Phases of mathetical procedure. Programed Instruction, 1963-64, 3 (3-4), 6-9.

Coulson, J.E. et al. Effects of branching in computer controlled auto-instructional device. J. appl. Psychol., 1963, 46, 389-392.

Crowder, N.A. On the differences between linear and intrinsic programming. Phi Delta Kappan, 1963, 44, 250-254.

Evans, J.L., Glaser, R. & Homme, L.E. An investigation of "teaching machine" variables using learning programs in symbolic logic. J. educ. Res., 1962, 55, 433-452.

Holland, J.G. & Porter, D. The influence of repetition of incorrectly answered items in a teaching-machine program. Journal of the experimental Analysis of Behavior, 1961, 4, 305-307.

Larkin, T.C. & Leith, G.O.M. The effects of linear and branching methods of programmed instruction on learning and retention of a topic in elementary science. Programmed Learning, 1964, 1, 12-16.

Lewis, B.N. & Pask, G. The theory and practice of adaptive teaching systems. In: R. Glaser (Ed.) Teaching machines and programed learning, II. Washington, D.C.: NEA, 1965. Pp. 213-266.

Ludwig, E.H. Die Technik zur Herstellung von Lehrprogrammen für die programmierte Unterweisung. Ratingen: Henn, 1965.

Mager, R.F. Learner-controlled instruction -- 1958-1964. Programed Instruction, 1964, 4 (2), 1-11.

Mager, R.F. & Clark, C. Explorations in student-controlled instruction. In: G.D. Ofiesh & W.C. Meierhenry (Eds.) Trends in programmed instruction. Washington: NEA, 1964. Pp. 235-238.

Pennington, D.F. & Slack, C.W. The mathetical design of effective lessons. In: S. Margulies & L.D. Eigen (Eds.) Applied programed instruction. New York: Wiley, 1962. Pp. 298-310.

Pressey, S.L. Autopresentation vs. autoelucidation. Programed Instruction. 1963, 2 (4), 6-7.

Pressey, S.L. Basic unresolved teaching-machine problems. Theory into Practice, 1962, 1, 30-37.

Prochnow, D. Einige strukturelle Grundlagen von Unterrichtsprogrammen im Zusammenhang mit einem Verfahren der mathematischen Bewertung von Prüfungsprogrammen. In: H. Frank (Ed.) Lehrmaschinen in kybernetischer und pädagogischer Sicht. 3. Stuttgart, Klett, 1965. Pp. 87-103.

Roe, A. A Comparison of branching methods for programmed learning. J. educ, Res., 1962, 55, 407-416.

Shettel, H.H. Individual differences in subject matter knowledge and programmed instructional format. Pittsburgh: AIR, 1963.

Silberman, H.F. et al. Fixed sequence versus branching auto-instructional methods. J. educ. Psychol., 1961, 52, 166-172.

Smallwood, R.D. A decision structure for teaching machines. Cambridge, Mass.: MIT Pr., 1962.

B 2. The characteristic of the single educational units

Barlow, J.A. Conversational chaining in teaching machines programs. Psychol. Rep., 1960, 7, 187-193.

Basescu, B. More on multiple-choice frames. Programed Instruction, 1962, 2 (1), 3.

Brown, R.W. Format location of programed instruction confirmations. Journal of programed Instruction, 1966, 3 (4), 1-4.

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